



US005761301A

United States Patent [19]

Oshima et al.

[11] **Patent Number:** 5,761,301[45] **Date of Patent:** Jun. 2, 1998

[54] **MARK FORMING APPARATUS, METHOD OF FORMING LASER MARK ON OPTICAL DISK, REPRODUCING APPARATUS, OPTICAL DISK AND METHOD OF PRODUCING OPTICAL DISK**

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[21] **Appl. No.:** 560,015

[22] **Filed:** Nov. 17, 1995

[30] **Foreign Application Priority Data**

Nov. 17, 1994	[JP]	Japan	6-283415
Feb. 2, 1995	[JP]	Japan	7-016153
Oct. 9, 1995	[JP]	Japan	7-261247

[51] **Int. Cl.⁶** H04K 1/00

[52] **U.S. Cl.** 380/4; 369/272; 235/494

[58] **Field of Search** 380/4; 369/272, 369/273, 286, 292, 52; 235/494

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[57] **ABSTRACT**

An object of the present invention is to provide a marking forming apparatus, a method of forming a laser marking on an optical disk, a reproduction apparatus, an optical disk, and a method of manufacturing an optical disk, capable of providing a greatly improved copy prevention capability as compared to prior known construction. To achieve this object, in the optical disk of the invention, for example, a marking is formed by a laser on a reflective film of a disk holding data written thereon and at least position information of the marking or information concerning the position information is written on the disk in an encrypted form or with a digital signature appended thereto.

27 Claims, 43 Drawing Sheets

